

Amendments to the Claims

Claim 1 (currently amended): A trailer locking system for securing a trailer having a door and a braking system, said braking system having a brake line configured to pneumatically interconnect a supply of compressed air to one or more air-operated brakes on said trailer, said trailer locking system comprising:

a power supply;

a brake lock device in operative communication with said braking system, said brake lock device configured to selectively place said brakes in a locked condition and prevent movement of said trailer;

a door lock device in operative communication with said door, said door lock device configured to selectively prevent the opening of said door when said door lock device is in a locked condition;

a controller unit connected to said power supply and in operative communication with said brake lock device and said door lock device, said controller unit having computer circuitry and componentry configured to control the operation of said brake lock device and said door lock device, said controller unit configured to automatically place said brakes in said locked condition based on one or more pre-selected criteria; and

a control mechanism in communication with said controller unit, said control mechanism configured to transmit operational instructions to said controller unit.

Claim 2 (original): The system according to claim 1, wherein said brake lock device further comprises a control valve electronically connected to said controller unit and pneumatically connected to said brake line, said control valve configured to open in response to an open signal from said controller unit so as to allow compressed air from said brake line to vent and maintain said brakes in a

1 locked condition until a close signal is received from said controller unit to close said control valve
2 and prevent compressed air from venting to place said brakes in an unlocked condition.

3
4 Claim 3 (original): The system according to claim 2, wherein said control valve has an inlet and an
5 outlet selectively in fluid communication with said inlet, said inlet pneumatically connected to a brake
6 line outlet pneumatically disposed in said brake line between said supply of compressed air and said
7 brakes, said control valve configured to vent air from said brake line.

8
9 Claim 4 (original): The system according to claim 3, wherein said control valve further comprises an
10 electric motor operatively connected to a shaft slidably disposed in said control valve to selectively
11 open and close the communication between said inlet and said outlet.

12
13 Claim 5 (original): The trailer locking device of claim 4, wherein said control valve further
14 comprises one or more limiting switches to monitor and limit the movement of said shaft in said
15 control valve, said one or more limiting switches electrically connected to said controller unit.

16
17 Claim 6 (original): The trailer locking device of claim 2, wherein said brake lock device further
18 comprises one or more pressure sensors operatively engaged with said control valve and electronically
19 connected to said controller unit so as to measure the air pressure at said control valve.

20
21 Claim 7 (original): The system according to claim 6, wherein at least one of said pressure sensors is
22 configured to communicate with said controller unit to open said control valve when the pressure in
23 said brake line drops below a pre-determined level and to maintain said control valve in a closed
24 condition when the pressure in said brake line is above said pre-determined level.

1 Claim 8 (original): The system according to claim 2, wherein said controller unit and said control
2 valve are disposed in a housing.

3
4 Claim 9 (original): The system according to claim 8, wherein said housing is located in an internal
5 cavity of said trailer.

6
7 Claims 10-18: cancelled

8
9 Claim 19 (original): The system according to claim 1 further comprising a communication system for
10 the transmission of signals across a wireless communication network, said communication system
11 comprising a communication device operatively connected to said controller unit.

12
13 Claim 20 (currently amended): The system according to claim 19, wherein said wireless
14 communications network transmits signals by satellite, cellular and/or radio communications
15 communication device is a radio.

16
17 Claim 21 (currently amended): A trailer locking system for securing a trailer having a door and a
18 braking system, said braking system having a brake line configured to pneumatically interconnect a
19 supply of compressed air to one or more air-operated brakes on said trailer, said trailer locking system
20 comprising:

21 a brake lock device in operative communication with said braking system, said brake
22 lock device configured to selectively place said brakes in a locked condition and prevent movement of
23 said trailer, said brake lock device having a control valve pneumatically connected to said brake line
24 and one or more pressure sensors operatively engaged with said control valve and electronically
25 connected to said controller unit so as to measure the air pressure at said control valve, said control
26 valve configured to open to allow compressed air from said brake line to vent to maintain said brakes

1 in said locked condition and to close to prevent compressed air from venting to place said brakes in an
2 unlocked condition;

3 a door lock device in operative communication with said door, said door lock device
4 ~~having an actuator configured to operatively actuate a locking member so as to selectively lock said~~
5 ~~door, said locking member~~ configured to prevent the opening of said door when said door lock device
6 is in ~~said a locked position~~ condition;

7 a controller unit connected to a power supply and in operative communication with said
8 control valve of said brake lock device and said door lock device, said controller unit having computer
9 circuitry and componentry configured to control the operation of said brake lock device and said door
10 lock device, said controller unit configured to automatically place said brakes in said locked condition
11 based on one or more pre-selected criteria; and

12 a control mechanism in communication with said controller unit, said control
13 mechanism configured to transmit operational instructions to said controller unit.

14
15 Claim 22 (original): The system according to claim 21 further comprising a communication system
16 for the transmission of signals across a wireless communication network, said communication system
17 comprising a communication device operatively connected to said controller unit.

18
19 Claim 23 (original): The system according to claim 21, wherein said control valve further comprises
20 an electric motor operatively connected to a shaft slidably disposed in said control valve to selectively
21 open and close said control valve, said control valve configured to selectively vent air from said brake
22 line.

23
24 Claim 24 (original): The trailer locking device of claim 23, wherein said control valve further
25 comprises one or more limiting switches to monitor and limit the movement of said shaft in said
26 control valve, said one or more limiting switches electrically connected to said controller unit.

1 Claim 25: cancelled

2
3 Claim 26 (currently amended): The system according to claim ~~25~~ 21, wherein at least one of said
4 pressure sensors is configured to communicate with said controller unit to open said control valve
5 when the pressure in said brake line drops below a pre-determined level and to maintain said control
6 valve in a closed condition when the pressure in said brake line is above said pre-determined level.

7
8 Claims 27-30: cancelled

9
10 Claim 31 (currently amended): A trailer locking system for securing a trailer having a door and a
11 braking system, said braking system having a brake line configured to pneumatically interconnect a
12 supply of compressed air to one or more air-operated brakes on said trailer, said trailer having a frame
13 comprising one or more tubular frame members, said trailer locking system comprising:

14 a brake lock device in operative communication with said braking system, said brake
15 lock device configured to selectively place said brakes in a locked condition and prevent movement of
16 said trailer, said brake lock device having a control valve pneumatically connected to said brake line
17 and one or more pressure sensors operatively engaged with said control valve to measure the air
18 pressure at said control valve to determine a measured pressure amount, said control valve configured
19 to open to allow compressed air from said brake line to vent to maintain said brakes in said locked
20 condition and to close to prevent compressed air from venting to place said brakes in an unlocked
21 condition;

22 ~~a door lock device in operative communication with said door, said door lock device~~
23 ~~having an actuator configured to operatively actuate a locking member so as to selectively lock said~~
24 ~~door, said locking member configured to be slidably received in a receptor disposed in one of said one~~
25 ~~or more tubular frame members and cooperatively engaged therewith to prevent the opening of said~~
26 ~~door until an open command is received from said controller unit;~~

27 RESPONSE/AMENDMENT

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1 a controller unit connected to a power supply and in operative communication with said
2 control valve of said brake lock device ~~and said door lock device~~, said controller unit having computer
3 circuitry and componentry configured to control the operation of said brake lock device ~~and said door~~
4 ~~lock device~~, said controller unit configured to automatically place said brakes in said locked condition
5 based on one or more pre-selected criteria, said controller unit configured with one or more control
6 codes, said control codes configured to allow operation of said brake lock device;

7 a control mechanism in communication with said controller unit, said control
8 mechanism configured to transmit operational instructions to said controller unit; and

9 a communication system for the transmission of signals across a wireless
10 communication network, said communication system comprising a communication device operatively
11 connected to said controller unit.

12
13 Claim 32 (original): The system according to claim 31, wherein at least one of said pressure sensors
14 is configured to communicate with said controller unit to open said control valve when the pressure in
15 said brake line drops below a pre-determined level and to maintain said control valve in a closed
16 condition when the pressure in said brake line is above said pre-determined level.

17
18 Claims 33-34 Cancelled

19
20 Claim 35 (new): The system according to claim 19, wherein said controller unit comprises one or
21 more control codes configured to allow operation of said brake lock device and/or said door lock
22 device, said communication system configured for remote modification of said control codes.

23
24 Claim 36 (new): The system according to claim 35, wherein said communication system is
25 configured to allow remote operation of said brake lock device and/or said door lock device.

1 Claim 37 (new): The system according to claim 36, wherein said communication system is
2 configured to send an outgoing signal acknowledging commands entered at said controller unit or said
3 control mechanism and whenever said control codes are modified.

4
5 Claim 38 (new): The system according to claim 22, wherein said wireless communications network
6 transmits signals by satellite, cellular and/or radio communications.

7
8 Claim 39 (new): The system according to claim 22, wherein said controller unit comprises one or
9 more control codes configured to allow operation of said brake lock device and/or said door lock
10 device, said communication system configured to allow remote operation of said brake lock device
11 and/or said door lock device and for remote modification of said control codes.

12
13 Claim 40 (new): The system according to claim 39, wherein said communication system is
14 configured to send an outgoing signal acknowledging commands entered at said controller unit or said
15 control mechanism and whenever said control codes are modified.

16
17 Claim 41 (new): The system according to claim 31, wherein said pre-selected criteria comprises a
18 predetermined pressure amount, said controller unit configured to open said control valve when said
19 measured pressure amount is less than said predetermined pressure.

20
21 Claim 42 (new): The system according to claim 31, wherein said communication system is
22 configured to allow remote operation of said brake lock device.

23
24 Claim 43 (new): The system according to claim 31, wherein said communication system is
25 configured to send an outgoing signal acknowledging commands entered at said controller unit or said
26 control mechanism.

1 Claim 44 (new): The system according to claim 31, wherein control system is configured for remote
2 modification of said control codes.

3
4 Claim 45 (new): The system according to claim 44, wherein said communication system is
5 configured to send an outgoing signal if said control codes are changed.

6
7 Claim 46 (new): The system according to claim 31, wherein said wireless communications network
8 transmits signals by satellite, cellular and/or radio communications.

9
10 Claim 47 (new): The system according to claim 31 further comprising a door lock device in
11 operative communication with said door, said door lock device configured to selectively lock said
12 door so as to prevent the opening of said door until an open command is received from said controller
13 unit.

14
15 Claim 48 (new): The system according to claim 47, wherein said control codes are configured to
16 allow operation of said brake lock device and/or said door lock device, said communication system
17 configured for remote modification of said control codes.

18
19 Claim 49 (new): The system according to claim 48, wherein said communication system is
20 configured to allow remote operation of said brake lock device and/or said door lock device.

21
22 Claim 50 (new): The system according to claim 49, wherein said communication system is
23 configured to send an outgoing signal acknowledging commands entered at said controller unit or said
24 control mechanism and whenever said control codes are modified.